

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P964993

Luminaire Tested: **NAV-SB3D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25266.2 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

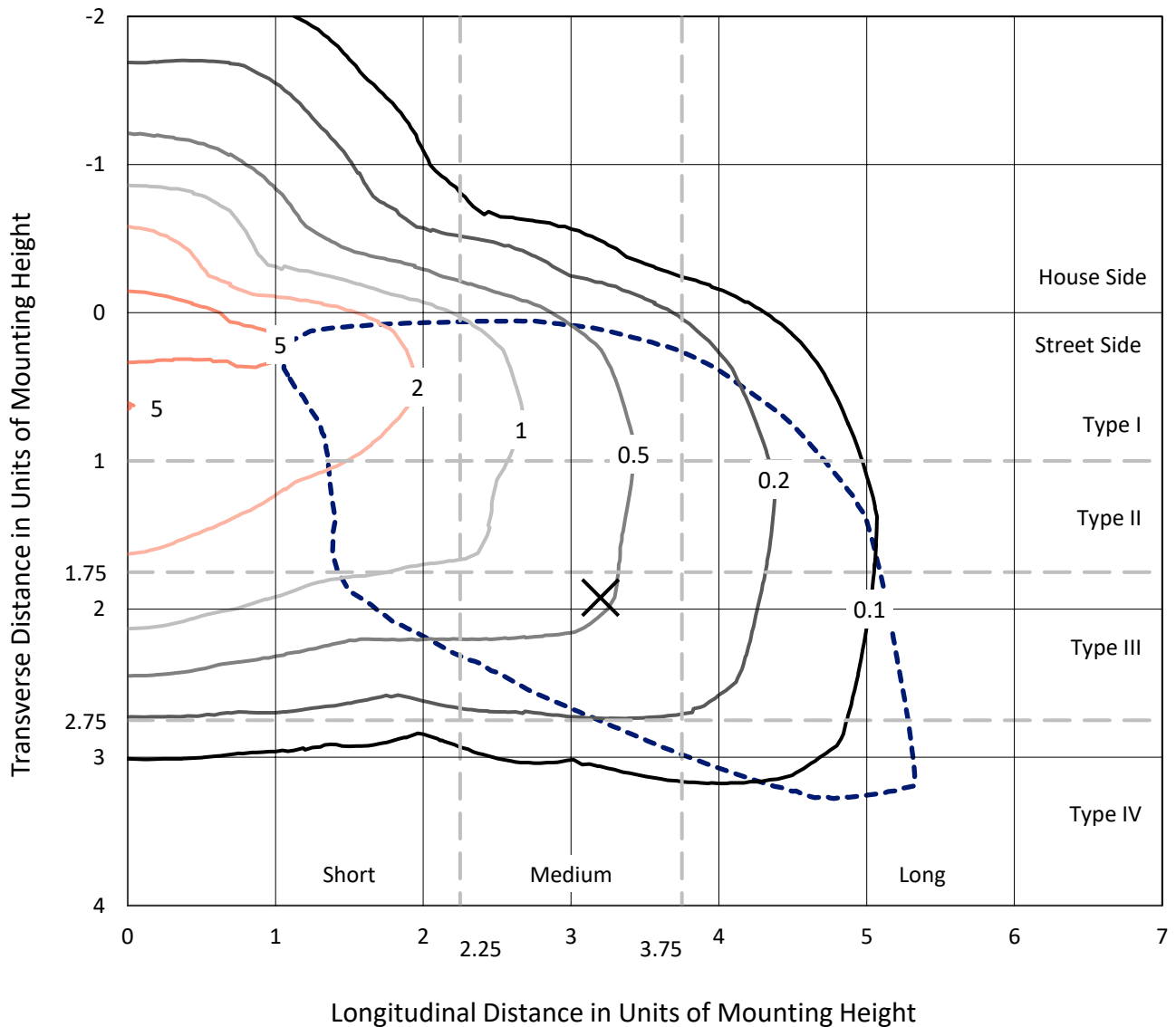
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

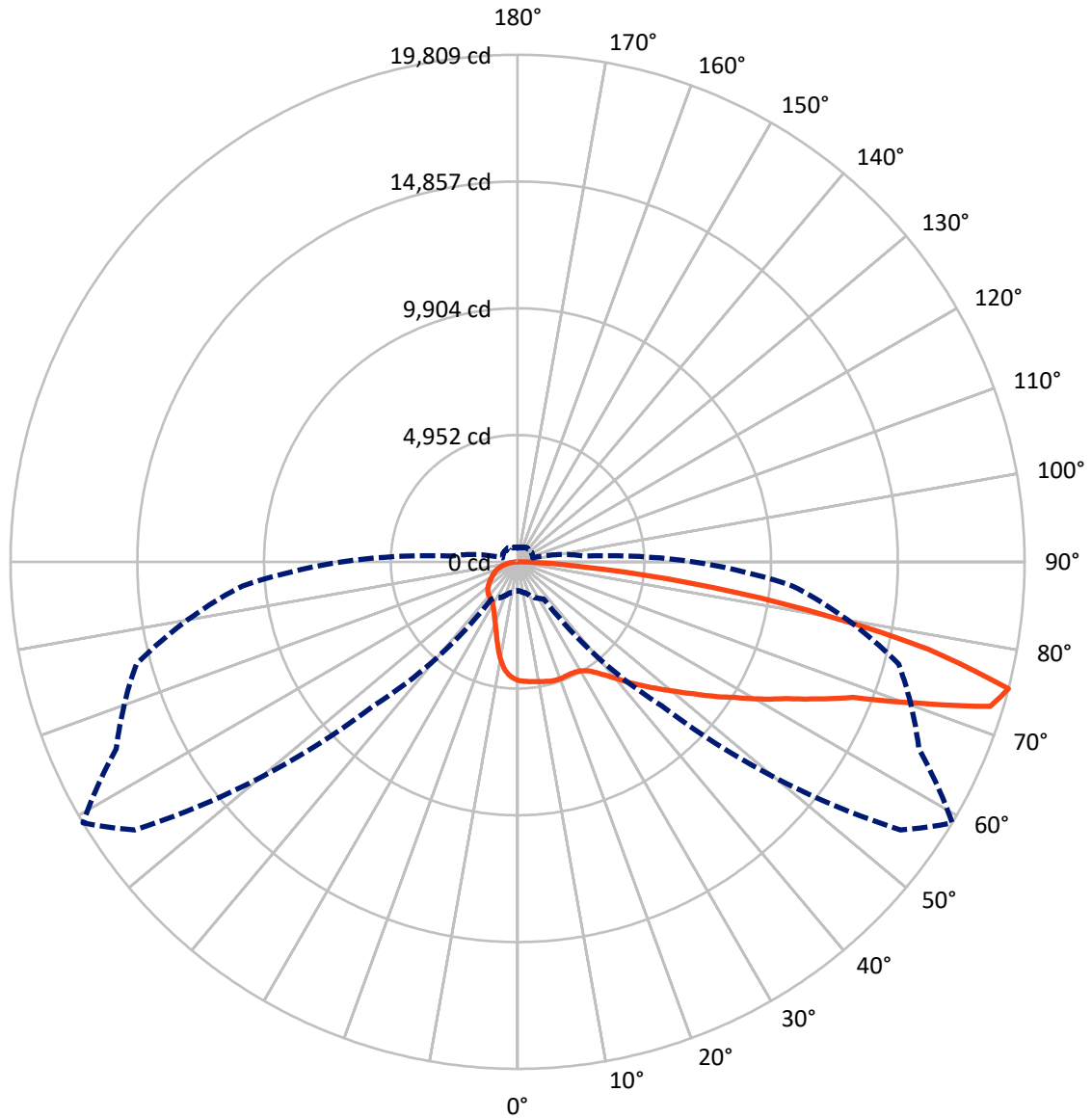
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4738.9	0.0	4738.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20527.4	0.0	20527.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	25266.2	0.0	25266.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	1.6
10°-20°	1062.9	4.2
20°-30°	1614.5	6.4
30°-40°	2399.8	9.5
40°-50°	3569.0	14.1
50°-60°	4844.5	19.2
60°-70°	5914.3	23.4
70°-80°	4641.5	18.4
80°-90°	804.0	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25266.2	100.0
0°-180°	25266.2	100.0

Coefficient of Utilization

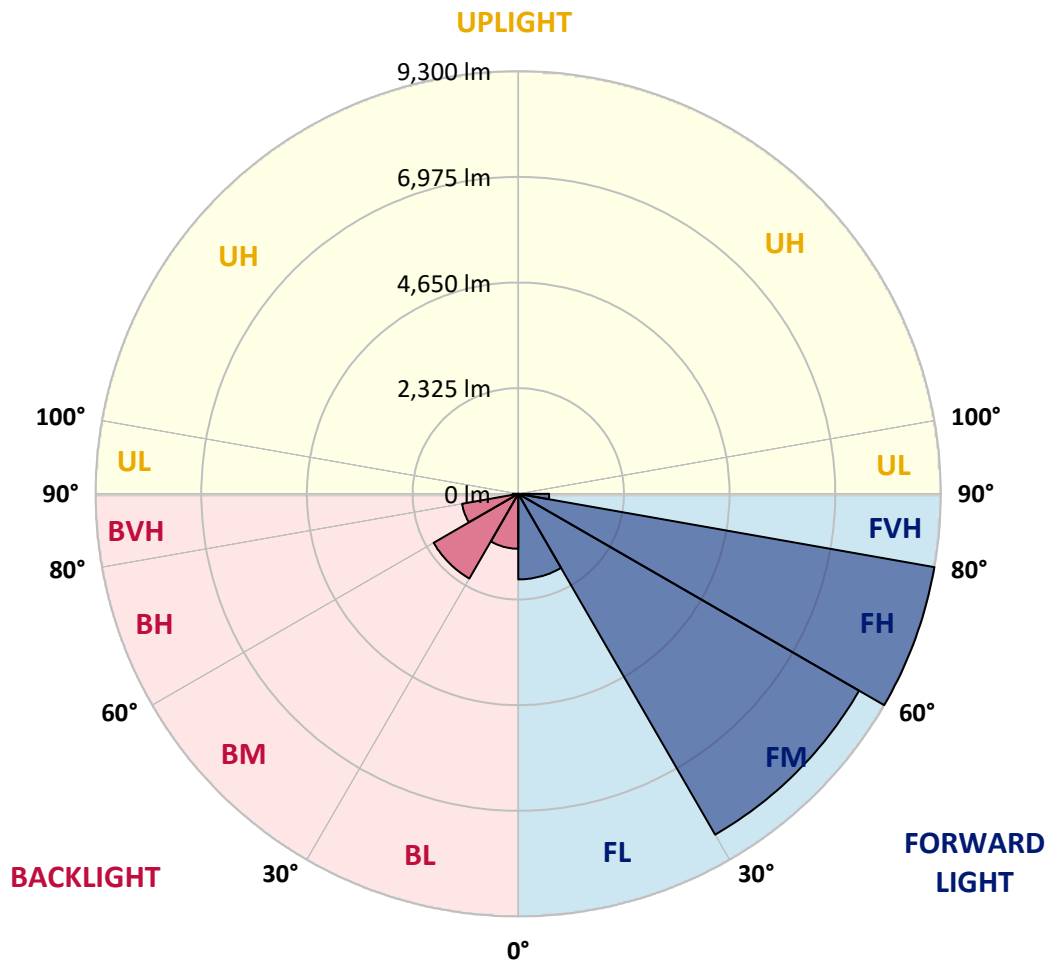


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.9	7.5			
FM	(30°-60°)	8662.3	34.3			
FH	(60°-80°)	9300.3	36.8			G4/12000
FVH	(80°-90°)	680.9	2.7			G4/750
BL	(0°-30°)	1209.3	4.8	B3/2500		
BM	(30°-60°)	2151.0	8.5	B2/2500		
BH	(60°-80°)	1255.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	123.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6
2.5°	4677.0	4660.7	4677.0	4670.2	4667.4	4662.0	4663.3	4672.9	4667.4	4674.3	4651.1
5°	4645.7	4636.2	4652.5	4648.5	4666.1	4668.9	4686.5	4697.4	4704.1	4705.6	4687.8
7.5°	4594.0	4584.5	4607.7	4626.6	4664.8	4675.6	4712.3	4730.0	4739.5	4755.8	4730.0
10°	4405.1	4401.0	4458.1	4530.2	4619.9	4675.6	4731.3	4761.2	4776.2	4819.7	4789.8
12.5°	4070.8	4076.2	4150.9	4289.6	4469.0	4648.5	4753.1	4796.6	4819.7	4874.1	4860.4
15°	3751.4	3750.0	3831.6	3979.7	4231.2	4528.9	4764.0	4838.7	4878.2	4958.3	4947.5
17.5°	3566.5	3561.1	3618.1	3731.0	3964.8	4345.4	4736.8	4861.8	4946.1	5046.7	5037.2
20°	3532.6	3521.7	3551.5	3607.3	3773.1	4144.2	4666.1	4861.8	5000.5	5130.9	5125.5
22.5°	3656.3	3638.5	3626.3	3619.5	3693.0	3978.3	4586.0	4845.5	5080.6	5251.9	5242.4
25°	3904.9	3877.8	3815.3	3754.1	3732.3	3903.6	4515.2	4841.5	5200.2	5415.0	5379.7
27.5°	4307.3	4273.3	4146.9	4000.1	3868.2	3941.6	4484.0	4865.9	5332.2	5587.7	5517.0
30°	4806.1	4769.4	4610.3	4384.7	4148.3	4083.0	4523.4	4937.9	5500.7	5817.4	5678.7
32.5°	5253.2	5212.5	5076.6	4846.9	4527.4	4327.7	4648.5	5075.2	5765.7	6136.8	5922.0
35°	5650.2	5602.5	5480.3	5268.2	4992.3	4671.5	4874.1	5318.5	6142.2	6655.9	6252.3
37.5°	6038.9	5983.1	5850.0	5625.7	5432.7	5129.6	5185.3	5631.1	6642.4	7286.6	6690.0
40°	6473.8	6393.6	6231.9	6010.4	5822.8	5666.5	5594.4	6014.4	7150.7	7990.7	7236.3
42.5°	6895.2	6819.0	6626.1	6437.1	6202.0	6157.2	6068.8	6462.9	7706.7	8764.1	7790.9
45°	7349.1	7258.1	7024.3	6785.1	6637.0	6483.3	6528.2	6911.5	8251.7	9552.4	8372.6
47.5°	7774.6	7672.6	7396.7	7130.3	7048.7	6757.9	6949.5	7404.9	8818.5	10351.6	8949.0
50°	8004.3	7903.7	7674.0	7433.4	7369.5	7096.4	7406.2	7947.2	9412.4	11148.1	9502.2
52.5°	8195.9	8087.1	7786.8	7653.6	7634.6	7464.7	7969.0	8566.9	10006.4	11852.2	10036.3
55°	8399.8	8278.8	7895.6	7776.0	7862.9	7877.8	8636.3	9269.7	10634.3	12538.5	10540.5
57.5°	8634.9	8481.4	8000.2	7879.3	8085.8	8361.7	9402.9	9998.3	11251.4	13174.6	10989.0
60°	8856.5	8701.5	8201.3	8043.7	8326.4	8923.1	10282.3	10880.4	11950.1	13741.5	11413.2
62.5°	8900.0	8772.3	8361.7	8360.4	8652.6	9578.2	11323.4	11770.6	12560.2	14301.4	11793.8
65°	8147.0	8066.9	7823.5	8348.1	9120.1	10521.5	12482.9	12909.6	13336.4	14790.7	12128.1
67.5°	6200.6	6211.5	6193.9	7206.5	8742.3	11876.6	14161.4	14128.8	14294.6	15339.8	12512.7
70°	2835.3	2899.1	3315.1	4974.6	7003.9	12032.9	16936.9	16514.2	15497.5	16050.7	12845.7
72.5°	1531.8	1580.8	1750.6	2409.9	4210.8	10698.2	19011.0	19311.4	17097.3	16529.1	12480.1
75°	1124.0	1151.3	1269.5	1531.8	1768.3	7951.2	18267.6	19808.8	17297.1	15413.2	10777.1
77.5°	841.3	853.6	950.1	1213.8	905.2	4191.7	14596.4	16405.4	14807.0	12663.6	7960.8
80°	610.3	623.9	695.9	910.6	634.8	1533.2	10022.7	11515.1	10140.9	8072.3	3967.5
82.5°	421.4	426.8	458.1	619.8	443.1	595.3	5686.9	6752.5	5661.1	2832.6	1071.0
85°	254.2	261.0	274.6	361.5	251.4	282.7	2454.7	2538.9	1692.2	676.9	333.0
87.5°	104.7	111.4	122.3	152.2	99.2	78.8	405.1	508.3	316.7	198.4	103.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6	4637.6
2.5°	4644.4	4634.8	4609.0	4573.7	4541.1	4500.3	4482.6	4467.7	4454.0	4428.2	4416.0
5°	4672.9	4647.0	4577.8	4488.1	4386.1	4274.7	4165.9	4091.2	4027.3	3979.7	3940.3
7.5°	4716.4	4667.4	4541.1	4357.6	4123.8	3884.5	3668.5	3514.8	3399.3	3357.2	3283.8
10°	4761.2	4702.8	4482.6	4159.1	3755.5	3387.1	3100.3	2942.7	2850.2	2820.3	2774.2
12.5°	4814.2	4728.6	4391.5	3883.2	3343.7	2939.9	2689.8	2597.5	2549.9	2533.5	2537.6
15°	4891.7	4750.4	4254.3	3538.0	2950.8	2613.8	2452.0	2388.1	2363.6	2362.3	2367.8
17.5°	4950.1	4754.5	4040.9	3168.3	2649.1	2416.6	2283.4	2259.0	2275.3	2299.8	2309.2
20°	5015.4	4717.8	3760.9	2831.2	2437.0	2244.0	2188.3	2204.6	2244.0	2279.4	2291.6
22.5°	5061.7	4651.1	3422.5	2568.9	2253.6	2144.8	2142.0	2176.1	2197.8	2215.4	2225.0
25°	5102.4	4538.4	3063.6	2348.7	2102.7	2085.0	2114.9	2104.0	2089.1	2104.0	2113.5
27.5°	5132.3	4360.2	2742.9	2155.7	1996.7	2044.3	2026.5	2002.1	2000.7	2008.9	2022.4
30°	5122.7	4122.4	2479.2	1972.2	1921.9	1968.1	1926.0	1921.9	1917.8	1921.9	1936.8
32.5°	5122.7	3852.0	2276.6	1845.8	1874.3	1856.7	1852.6	1843.1	1826.8	1825.4	1843.1
35°	5151.3	3581.5	2102.7	1777.9	1835.0	1792.7	1795.5	1772.4	1738.4	1722.1	1738.4
37.5°	5209.8	3364.0	1930.1	1745.2	1765.6	1764.2	1753.4	1713.9	1654.1	1602.5	1620.1
40°	5351.1	3300.1	1811.8	1730.3	1733.0	1749.3	1720.8	1644.6	1508.7	1424.4	1435.3
42.5°	5572.7	3407.5	1786.0	1693.5	1711.2	1727.5	1671.8	1495.1	1398.6	1348.3	1348.3
45°	5854.1	3595.1	1841.7	1640.5	1659.6	1688.1	1522.3	1438.1	1394.5	1395.8	1402.7
47.5°	6210.2	3792.2	1945.0	1594.3	1584.9	1601.2	1423.1	1371.4	1311.6	1326.6	1364.6
50°	6622.0	3992.0	2042.8	1531.8	1501.9	1448.9	1359.1	1310.3	1234.1	1198.8	1208.4
52.5°	7067.8	4185.0	2082.3	1455.7	1412.2	1351.1	1315.7	1255.9	1163.5	1105.1	1103.6
55°	7490.5	4360.2	2038.8	1364.6	1322.5	1274.9	1269.5	1232.8	1133.5	1052.1	1052.1
57.5°	7890.1	4507.1	1930.1	1272.2	1231.4	1202.8	1239.5	1221.9	1096.9	992.2	986.8
60°	8228.6	4607.7	1772.4	1178.4	1149.8	1134.9	1190.6	1185.2	1045.2	928.3	924.2
62.5°	8497.7	4647.0	1598.4	1088.8	1081.9	1054.7	1122.7	1122.7	980.0	865.8	861.7
65°	8708.3	4609.0	1421.7	1000.4	1013.9	973.1	1039.8	1031.7	910.6	810.1	804.6
67.5°	8894.5	4484.0	1226.0	913.4	944.6	893.0	952.8	933.8	834.6	754.4	748.9
70°	8977.5	4193.1	1003.1	826.4	864.5	814.2	865.8	830.5	748.9	694.5	683.7
72.5°	8311.4	3485.0	789.7	735.3	767.9	727.1	772.0	731.2	656.5	632.0	611.6
75°	6876.1	2615.1	607.5	636.1	660.6	629.3	659.2	629.3	561.4	579.0	528.7
77.5°	4993.7	1765.6	464.8	531.5	542.3	526.0	551.9	517.8	456.6	452.6	432.2
80°	2483.3	1034.3	364.3	419.9	415.9	405.1	434.9	418.6	367.0	388.7	384.7
82.5°	719.0	443.1	265.1	295.0	286.8	289.5	311.3	319.4	478.5	474.4	485.2
85°	225.6	173.9	159.0	164.5	156.3	160.4	183.5	364.3	337.1	197.1	213.4
87.5°	58.4	59.8	39.5	42.1	43.5	51.7	58.4	221.5	106.0	69.3	73.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)